Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application using (Original) (Currently Amended) (New) (Canceled) (Previously Presented) nomenclature, as recited in the below listing of claims.

1. (Currently Amended) A system for communicating an analog input signal as a modulated binary laser signal over an optical communication medium recovered as a digital output signal, the system comprising,

a sigma delta modulator for receiving the analog input signal and modulating the analog signal into a modulated symbol signal,

a transmitter for converting the modulated symbol signal into the modulated binary laser signal, and for transmitting the modulated binary laser signal over the optical communication medium, the modulated binary laser signal having a pulse width having a duration representative of the analog input signal, the modulated binary laser signal being transmitted asynchronously,

a receiver for receiving and detecting the pulse width of modulated binary laser signal for providing a received symbol signal, and

a digital filter for filtering the symbol signal into the digital output signal.

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2. (Previously Presented) The system of claim 1 wherein the 1 transmitter comprises, 2 a symbol to binary converter for converting the modulated 3 symbol signal from the sigma delta modulator into a converted 4 digital signal, and 5 a pulse width modulator for modulating the laser signal by the 6 7 converted digital signal into the modulated binary laser signal as a pulse width binary modulated laser signal communicated over the 8 9 optical communication medium. 10 11 3. (Original) The system of claim 2 wherein the receiver comprises, a pulse width detector receiving the pulse width modulated 12 13 binary laser signal and for providing a detected binary signal, and 14 a binary to symbol converter for converting the detected binary signal into the received symbol signal. 15 16 17 4. (Previously Presented) The system of claim 3 wherein, 18 the pulse width detector is a pulse width quantizer detector, 19 the detected binary signal is a detected quantized signal, and 20 the binary to symbol converter converts the detected quantized signal into the received symbol signal. 21 22 5. (Original) The system of claim 1 further comprising, 23 24 a timing recovery loop for generating a timing signal from the

receive symbol signal for clocking the digital filter.

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6. (Original) The system of claim 1 wherein, the sigma delta modulator is a first order sigma delta modulator. 7. (Original) The system of claim 1 wherein, the sigma delta modulator is a second order sigma delta modulator. 8. (Previously Presented) The system of claim 1 wherein the optical communication medium is selected from the group consisting of free space and a fiber optic. 9. (Canceled) 10. Canceled)

11. (Currently Amended) A system for communicating an analog input signal as a pulse width modulated binary laser signal over an optical communication medium recovered as a digital output signal, the system comprising

a sigma delta modulator for receiving the analog input signal and modulating the analog signal into a modulated symbol signal,

a transmitter for converting the modulated symbol signal into a converted digital signal for pulse width modulating a laser signal into the pulse width modulated binary laser signal, and for transmitting the pulse width modulated binary laser signal over the optical communication medium, the modulated binary laser signal having a pulse width having a duration representative of the analog input signal, the modulated binary laser signal being transmitted asynchronously through the optical communication medium,

a receiver for receiving and detecting the pulse width of the pulse width modulated binary laser signal to provide a detected binary signal and for converting the detected binary signal into a received symbol signal, and

a digital filter for filtering the symbol signal into the digital output signal.

12. (Currently Amended) The system of claim 1 wherein the modulated digital laser signal is frame asynchronously communicated over the optical communication medium without the use of frame words.

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13. (Currently Amended) The system of claim 11 wherein the 1 modulated digital laser signal is frame asynchronous communication 2 communicated over the optical communication medium without the use 3 4 of frame words. 5 14. (Currently Amended) The system of claim 1 wherein, 6 7 the modulated digital laser signal is a pulse having a pulse 8 width indicating the analog input signal, and 9 the pulse is a laser pulse communicated is for bit asynchronous 10 communications over the optical communication medium. 11 15. (Canceled) 12 13 16. (Previously Presented) The system of claim 11 wherein the 14 optical communication medium is selected from the group consisting 15 16 of free space and a fiber optic. 17 17. (New) The system of claim 1 wherein the receiver comprises, 18 19 a pulse width detector for detecting the pulse width of the modulated binary laser signal laser pulses of the communicated 20 signal and provides binary values, 21 a binary to symbol converter for changing the binary values 22 23 from the pulse width detector into symbols, the digital filter for 24 filtering the symbols for providing a clocked digital output signal, the digital filter filtering a continuous stream of 25 26 symbols. 27 /// 28

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20. (New) The system of claim 19 wherein,

18. (New) The system of claim 17 further comprising,

rate to provide a clock signal to the digital filter, and

the timing recovery loop recovers from the symbols a sample

the clocked digital output is an n bit digital sample of the

the system does not use parallel to serial conversion, frame

analog input signal, the digital filter filtering a continuous

synchronization, data reclocking, forward error correction, or

significant bit reordering for generating the clocked digital

21. (New) The system of claim 11 wherein the receiver comprises,

width of the modulated binary laser signal laser pulses of the

filtering the symbols for providing a clocked digital output

a binary to symbol converter for changing the binary values

from the pulse width detector into symbols, the digital filter for

communicated signal and provides binary values,

a pulse width detector for detecting the duration of the pulse

a timing recovery loop for receiving the symbols and for

clocking the digital filter for providing the clocked digital

output signal.

stream of symbols.

output signal.

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19. (New) The system of claim 18 wherein,

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signal.

22. (New) The system of claim 21 further comprising, a timing recovery loop for clocking the digital filter for providing the clocked digital output signal, wherein, the timing recovery loop recovers from the symbols a sample rate to provide a clock signal to the digital filter, and the clocked digital output is an n bit digital sample of the analog input signal. 23. (New) The system of claim 22 wherein, the system does not use parallel to serial conversion, frame synchronization, data reclocking, forward error correction, or significant bit reordering for generating the clocked digital output signal.